

\* SWBAT define and interpret impulse

Sep 6-2:31 PM

# Welcome!!!

H. Leslie Grebe

- \* Pick up:
  - slip of paper (for later)

Centering...



## Opening Question:

A friend throws you a baseball and you don't have a mitt.

What do you do special when catching it? Why?

*FOLLOW THROUGH, GRADUALLY*

SECA Physics  
Monday 9 December 2013

Sep 7-7:04 AM

## Impulse is CHANGE in momentum

How do you catch a baseball if you don't have a glove?

GIVE W/IT

What about a (really full) water balloon?

SMALL FORCE  $\Rightarrow$  MORE TIME

What is it you are trying to adjust???

<http://www.youtube.com/watch?v=aMqM13EUSKw>

It takes TIME to change something's momentum

Dec 5-9:21 AM

## Impulse is CHANGE in momentum

$\Delta \text{mom.} = m \cdot \Delta v$   
 — MASS X VEL.

Impulse = Force X Time

BRAKES

Safety: Big forces = OUCH!!!

When something stops, it changes momentum

Less OUCH if more TIME to stop!

ESPN "Relaxing with Impulse"

<http://www.youtube.com/watch?v=aMqM13EUSKw>

It takes TIME to change something's momentum

Dec 5-9:21 AM

### Daily 3 Questions

- \* Every day except test/project days
- \* 3 Questions on the topics of the day
- \* Main source of daily points
- \* I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

You can't get your points if you don't have your **NAME!!!**

Name	Period
1.	
2.	
3.	

CP: Look up "impulse" and write two sentences. 1) Use impulse in everyday / most common meaning. 2) Use impulse with physics meaning.

Sep 9-7:32 AM

1. Impulse is change in

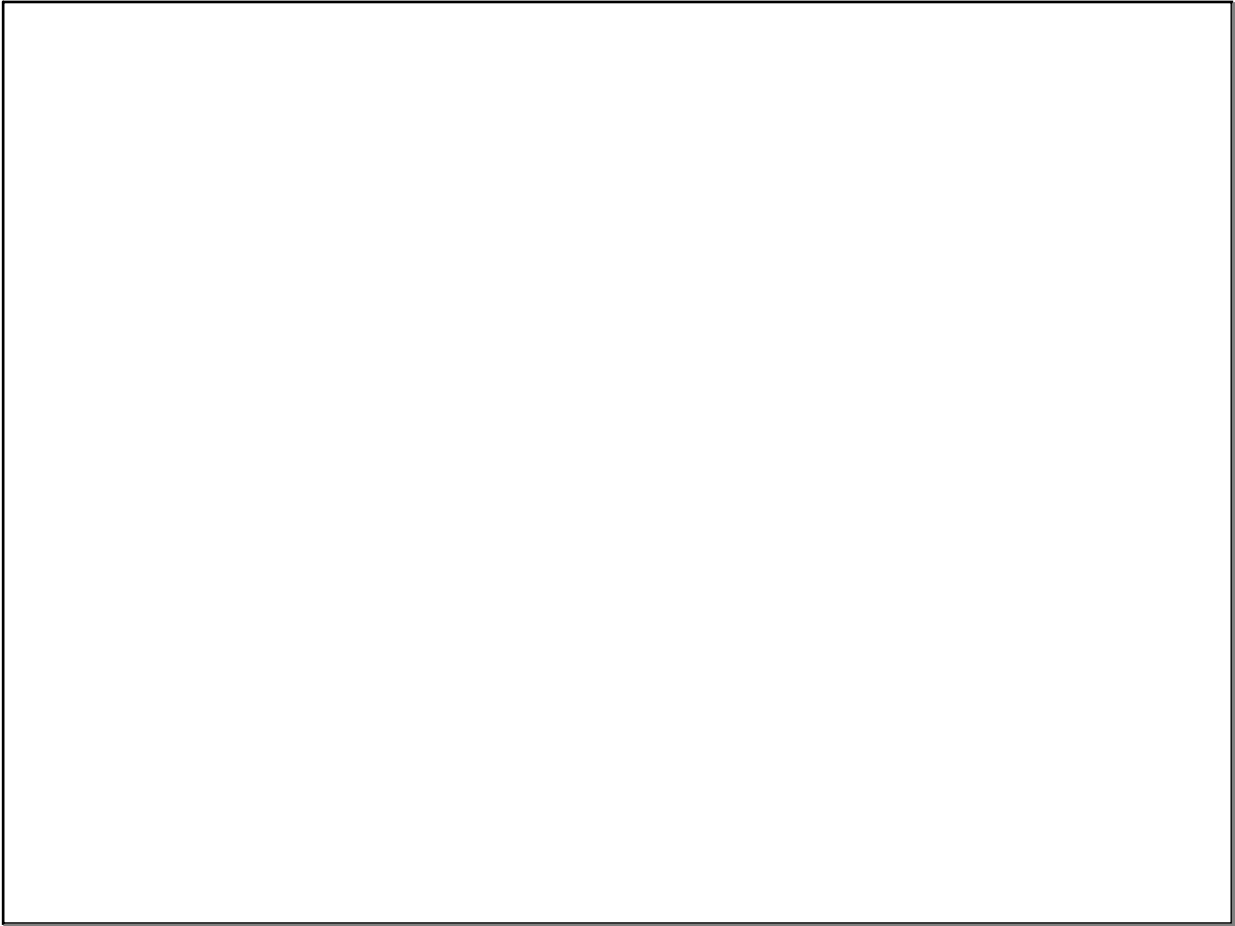
- a) work
- b) power
- ☒ c) momentum

2. IMPULSE = Force X time

3. Why do you "give" when catching a baseball barehanded?

- ☒ a. To take more time and have less force
- b. To take less time and change speed more
- c. To do less work

Dec 2-7:55 AM



Dec 9-7:35 AM